

The New Hampshire.

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LOOKING BACK OVER THE SEASON

New Hampshire
Has Seven Wins
and Two Setbacks

“DUTCH” BEST PLAYER

Resume of Season's Work Shows
Strength of the Team---Finish
Schedule in Fighting Form---
Had Setbacks at Start

New Hampshire's most successful football season has closed, and the moleskins and cleated shoes are put away until next fall for what is hoped to be a still more successful season. Seven victories and two defeats is a record that commands respect, for there are very few colleges that have gone through the season with but two defeats.

The Blue and White had their share of hard luck too, for the backfield never had its full strength in any game. In the Connecticut game at the start, the backfield looked strong with Farmer, Andrews and Anderson, but in that the initial game, Farmer injured his knee so as to disable him for the season. He did play in several more games, but in every case his knee bothered him. However, when “Dutch” Connor appeared in the line-up the following Saturday, prospects looked better. The second serious loss came after the third game, that with Norwich, when “Les” Andrews was forced to leave college because of sickness. “Les” was fast and a dangerous man to opponents and his loss was a serious setback.

START WITH VICTORIES

The team started off well, playing fine football and defeating Connecticut, Bates, Norwich and Vermont. In the Lowell Textile game, they played a weird game although the game was easily won. The following Saturday New Hampshire came back strong in a thrilling game, and set back Mass. Aggies 9-7, “Dutch” scoring the winning three points in the last minutes of play. Worcester Tech was easy in the next game and then Maine came to Durham to play for the state college championship. For three periods New Hampshire held the play in Maine's territory but the Blue and White were unable to cross the goal line. In these three periods, the ball was never once downed by either side within the New Hampshire 40-yard line. But in the last period, Maine made a drive down the field and scored a touchdown on a long forward.

That was the first defeat and was quite disheartening because of the way Maine was outplayed. In spite of this, the N. H. gridmen went to Brown the following week determined to fight their hardest. Brown's powerful machine was only able to score one touchdown, and that was due to a penalty. But the way New Hampshire fought was a fitting finish for the most successful season New Hampshire College has ever had in football.

“DUTCH” SUPREME

Without doubt, “Dutch” Connor played the best and most consistent football for New Hampshire. Those games were won by his drop-kicks, and his long, twisting punts were another factor that served to make New Hampshire a winner. “El” Gadbois was easily the best man in the line, with his fierce tackling and hard fight, but credit must also go to “Buck” Harvell and in fact the entire line, for they all played in the best possible manner. The team worked smoothly all year long and there was never a bit of dissension among the members of the team.

Coach Cowell certainly deserves much praise for developing the wonderful line and the way he has kept his men working hard and cheerfully is of special note. He has also done much in keeping up the good support of the team by the student body. Since Coach Cowell has been in charge of athletics here, football standards at N. H. C. have steadily risen and will without doubt continue to rise.



THE NEW HAMPSHIRE COLLEGE FOOTBALL TEAM.

Left to right:

Front Row. Batchelder, Gadbois, Connor, Capt. Graham, Bell, Lovejoy, Sawyer, Anderson. Second Row. Harvell, Andrews, Leavitt, Farmer, Butler, Davis, Hazeltine, Christensen. Third Row. Greer, Broderick, Patrick, Rowe, Campbell, Rowell, Rumazza, Reardon, Doyle. Fourth Row. Ingham, Stahl, Stanley, Cunningham, Cooper, Alling, McKenney, Mansell, Coach Cowell.

BASKETBALL STARTS AFTER VACATION

Revised Schedule Has Game With
Dartmouth---Possibility of Col-
gate's Playing the Blue and
White

The call for basket ball candidates for the varsity team, will not come until after the Christmas vacation. Coach Cowell decided to postpone the call, as several of the varsity men have just finished a strenuous football season, and need a good lay-off. Consequently, the two games with the Portland A. C. have been cancelled. However, the news of a game with Dartmouth and a possible game with Colgate is pleasing to the basketball fans.

All things point towards another successful season, as there is a wealth of material here this year. Capt. “Ducker” Davis, “Ted” Butler, “Tom” Craig, “Ham” Anderson and “Bob” Perry are all letter men of last year and will certainly make a strong combination. “Jim” Steele is another letter man who will be on hand. He played forward two years ago, and will without doubt push the last year's regular men for a position. There are also several freshmen who will make strong bids for regular position.

The revised schedule follows:
Friday, Jan. 9. Conn. Aggies, Storrs, pending.

Saturday, Jan. 10. B. U. L. S. Boston (pending.)

Saturday, Jan. 17. Tufts, Durham.

Saturday, Jan. 24. University of Maine, Durham.

Friday, Jan. 30. Colgate University, Durham (pending.)

Saturday, Jan. 31. Worcester P. I., Worcester.

Saturday, Feb. 7. Mass. Aggies, Durham.

Friday, Feb. 13. Springfield, Springfield.

Saturday, Feb. 14. Brown University, Providence.

Friday, Feb. 20. Conn. Aggies, Durham.

Tuesday, Feb. 24. Dartmouth, Hanover.

Saturday, Feb. 28. Worcester P. I., Durham.

Friday, Mar. 5. Mass. Aggies, Amherst.

Saturday, Mar. 6. Tufts, Medford.

Friday, Mar. 12. Springfield, Durham.

Wednesday, Mar. 17. Brown, Durham.

Saturday, Mar. 20. Class game.

All those who would like to take lessons on the banjo, mandolin, guitar, ukulele or any other stringed instruments, please give their names to Mrs. Redman at Nesmith Hall. Lessons will be given weekly at Durham.

Y. W. C. A. FOREIGN PARTY PRESENTS UNIQUE SUCCESS.

A foreign party was held at the “Y.” Hut Saturday evening under the auspices of the Y. W. C. A., to which all students were invited. Several foreign scenes were presented, some in native costume and dialect.

The program and those taking part were as follows:

Spanish Restaurant Scene: Lucie Jones, '20, Gladys Whipple, '20, Marjory Ames, '23, Perley Perkins, '23, Charles Chadborn, '23, Harry Mooney, '22, Costas Anagnostopoulos; clarinet solo, Bernice Hill, '23; Chinese Temple Scene: Buddha, Miss Phelps; Chinese Worshipper, Marion Boothman, '22; vocal solo in Dutch costume, Hulda Ekdahl, '23; Japanese Domestic Scene: Mother, Alice Saxton, '23; Daughters, Bertha Eckman, Christabel Ham; vocal solo, in French, Miss Ekdahl.

At the conclusion of the entertainment tea and sandwiches were sold in Russian style. Miss Frances Kling, '20, explaining how it is done in that country.

Games were played and a social time enjoyed during the rest of the evening with Miss Ekdahl, '23, in charge.

Miss Gladys Bickford, '20, was in charge of the affair, assisted by Miss Phelps and other members of the Y. W. C. A. Mrs. J. H. Pettie of Japan arranged and explained the Japanese scene and Miss Richardson had charge of the Spanish scene.

CERCLE FRANCAIS.

On last Monday evening at 7.30 the Cercle Français held its regular meeting in the Rest Room, Smith Hall. Some amendments to the constitution were defined, and it was voted that the organization subscribe for “Les Etats-Unis.” Following this, a social hour was enjoyed, during which each one told of his or her experiences during the Thanksgiving recess.

McKelvie: “Look out now, if I get mad I'll take a bite out of your ear.”
Weston: “Better not, you might not be able to chew it.”

CALENDAR OF EVENTS.

Dec. 10. Granite Board Meeting at DeMerritt Hall at 2.45 p. m. Girls' Glee Club, “T.” Hall at 7.15. Men's Glee Club, “T.” Hall at 8.15. Durham Men's Club, Ladies' Night.
Dec. 11. Mandolin Club at “T.” Hall, 4.30 p. m.
Dec. 12. Girls' Dramatic Club Play at the Gymnasium at 8.00.
Dec. 13. Informal at the Gymnasium.
Dec. 14. College Orchestra gives Musical Vesper Service at the Durham Church, 4.30 p. m.
Dec. 15. All photographs due for 1921 Granite.
Dec. 19. College closes at 4 p. m.

PROF. C. F. JACKSON TALKS TO PI GAMMA

Discusses the Recent Investigations in
Physics and Chemistry and Their
Relation to Biology

At the meeting of Pi Gamma held last Wednesday evening in the Commuters' Room at Smith Hall, a very interesting letter from Raymond Bean was read. Mr. Bean is now an instructor in the biological department at Adelbert College in Western Reserve University at Cleveland, Ohio.

Prof. C. F. Jackson, the speaker of the evening, talked on Recent Investigations in Physics and Chemistry and their Application to Biology. He mentioned the old idea which was held up to a few years ago that the atom is the smallest divisible particle, that energy is immutable, and that energy and matter are separable in spite of the fact that we have never been able to examine energy without the presence of the accompanying matter.

Prof. Jackson then turned to the new idea, and referred to Milliken, a chemical physicist of Chicago University, who is one of the leading exponents of this idea. Milliken has made many investigations on the nature of electricity. According to his theory, matter is composed of electrons, therefore matter and energy are one and the same thing. He also declares the mutability of energy.

OUTLINES MACFARLANE'S WORK

An outline was given of Macfarlane's work in theoretical biology. H believes that all matter was once dissociated particles known as ether particles, and by gradual condensation of these ether particles, atoms were produced. The first kind of energy formed was probably thermic, later lumie, then chemical, and finally electrical. As greater and greater condensation took place, the Solar System evolved. Finally the earth cooled sufficiently to form a favorable environment for the development of coloidal masses which were entirely inorganic. By further condensation these coloidal masses developed a new form of energy known as biotic energy. Nuclear matter gradually developed, and finally a higher type of proteid was formed which corresponds to the present nucleo proteid. According to Macfarlane, biotic energy has become differentiated into cogitic, the power of co-ordinate response, cogntic, recognition of the response and spiritic energy. This last represents an extremely highly complex form of energy. He is decidedly optimistic in his belief that man is constantly becoming better adjusted and adapted. Unlike many biologists, Macfarlane maintains that man is becoming more physically efficient. In short he sees every reason to expect an increasing co-operation and socialization of the human race.

“HABITS” SUBJECT AT CONVOCATION

Dr. F. M. Seerley Gives
Very Interesting Lecture

WINS AUDIENCE

Appeals to Students to Keep Moral
Standards High---Habits Con-
tinue Through Life---Must
Be Checked

New Hampshire College was honored last Wednesday by a visit from Dr. F. M. Seerley of Springfield, Mass., who spoke before an attentive audience in chapel on, “Habits of Life.”

The marvelous way in which the men and women of America adapted themselves to the conditions caused by the war was spoken of by Dr. Seerley. People changed their ways of living almost without realizing it. They lived without certain things which, before the war, had been looked upon as necessities of life. As soon as the fighting ceased, these same people went back to the “pro bellum” mode of living and invoked just as little observation to it as they had in departing from it. All this, the speaker told, showed how quickly people get into a habit.

DR. SEERLEY SAID IN PART

“Human life can be characterized as being on three levels, namely; the digestive system, nervous system, and brain power. The digestive system of a person's body goes on in a habit-like manner. One never stops suddenly in his work to inquire about this. One takes it as a matter of fact, an every-day occurrence. The heart beats at all times of the day and night, and the lungs continue to take in oxygen and give off carbon-dioxide practically unnoticed. In a manner similar to this people do things which, after awhile, become habits.

HABITS CONTINUE

“The nervous system of the body, which is the second level, endows a child with the power of exercising what are called his seven senses. By constantly using certain ones of these, he soon finds that the habit of doing so has seemed to grow up with him.

“The life of the boy who began practicing cheating in grammar school was interestingly traced by the physician. In High school the practice of the boy had become more of a habit and he performed it without thinking. When he got into college he not only cheated but also denied several accusations, thus proving himself to be a liar as well as a cheat. The result was that he went into the world leaving a record at college which would always brand him as a man whom no one could trust.

DR. SEERLEY STILL FURTHER SAID

“In order to become so efficient that they can practice what they have learned without thinking, many men have devoted their lives to the study of various subjects. A doctor spends years of devotion to his books in order that he may so thoroughly master the contents as to be able to act in a habit-like manner, without thinking.”

The doctor said that young men and women, with this same view in mind, come to college and spend time and energy in studying. He appealed to the students not to forget themselves and allow their morals to become low.

“BRAIN” DIRECTS

In proving that man in his own life is supreme, Dr. Seerley pointed out that a brain had been provided everyone as a means of seeing the defects and of remedying them. He forcefully urged each student to take an inventory and discover wherein he or she was deficient and to strive for a higher standard.

While engaged in “Y.” work in France, Doctor Seerley saw a parade in Bordeaux which he described as being the most heart-rending scene he had ever witnessed. Those engaged in the parade were maimed vet-

(Continued on Page Six.)

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GAME FORFEITED TO FRESHMEN 1-0

Annual Freshie-Soph Game Brings Out Good Competition

CLEAN GAME

Freshmen Have Ball in Sophomore Territory Most of the Time--- Callahan Misses Drop Kick in Last Few Minutes of Play

A good-sized crowd turned out for the annual freshman-sophomore football clash at the College Oval, the day before Thanksgiving recess. The game ended in a scoreless tie, but was later forfeited to the freshmen by the Student Council. The sophs played a man who was ruled ineligible the night before the game and therefore lost the game by a score of 1-0.

The last half of the game was played in darkness and during the last few minutes of the play it was almost impossible to distinguish one man from another. Before it came dark, the play was fast and snappy, but the absence of light slowed up the game considerably. Contrary to custom, there was no slugging or unnecessary roughness; in fact it was one of the cleanest games played here this year, and the absence of arguments was also noticeable.

The freshmen held the ball most of the time in sophomore territory. Several times they threatened to score only to be held for downs. Once the yearlings carried the ball to the two-yard line only to lose it on a fumble. The sophomores put up a much stiffer game than was expected. Having not played together before they proved to be quite a surprise. It was very evident that the freshmen felt the loss of Litchfield, who has played a slashing game at full back all the year. Nevertheless, Campbell, who was shifted from tackle to full back proved a hard man to stop and consistently broke through for gains.

In the last period the sophomores staged a come back but upon nearing the goal post the freshman line stiffened and the ball went to the freshmen on downs.

In the last few seconds of play, Callahan tried a drop kick from the 15-yard line. The ball went high and close to the corner of the goal post. On account of the darkness it was difficult to decide but Referee Graham finally called it no goal as Umpire Connor also thought it did not go over.

Campbell, Callahan and Cotton excelled for the yearlings while Mansell, Stanley and Rowell were the mainstay of the '22 aggregation.

The score:
1923
Neville, r. e.
(Sullivan)
Campbell, r. t.
(Fernald)
Piper, r. g.
(Gay)
Patrick, c.
(Piper)
Rowe, l. g.

1922
l. e., Williams
(Cooper)
l. t., Stanley
l. g., Sherwood
c., Cox
r. g., Dickinson
(Ingham)
r. t., Mansell
r. e., Broderick
q. b., Cooper, (capt.)
(Alling)

Cotton, l. t.
Morris, l. e.
Callahan, (capt.) q. b.

Friborg, r. h. b.
Rogers, l. h. b.
Roy, f. b.
(Campbell)

Referee, E. D. Graham; umpire, S. J. Connor; linesman, R. B. Harvell. Time, 4 12-minute periods.

MEN'S QUARTET.

The New Hampshire College Men's Glee Club Quartet gave a recital before the Women's Club at Newmarket on Monday evening, December 1. The quartet this year is composed of G. T. Crosby, '22, F. W. Ladd, '21, M. R. Vose, '20 and S. E. Pollard, '21.

1923 CLASS MEETING.

1923 held a class meeting in "T." Hall Gym., Friday, Dec. 5th, at 7.30 p. m. Coach Howe spoke to the class about the football season just closed, and offered suggestions as to awarding sweaters to the maximum number possible of the large squad. After a spirited discussion it was voted to give five dollars each toward sweaters for eighteen men.

STUDENT LOAN FUND INCREASED BY \$1,000

James B. Pearson Trustees Give Amount to College to Be Used in Aiding Worthy Students Greatly Needed

One of the most important announcements that has been made of late, was given out at chapel last Wednesday afternoon, when President R. D. Hetzel made known that a check for \$1,000 had been received by him, to be used in providing a Loan Fund for the benefit of New Hampshire College students.

Dr. Hetzel said that a small amount of money has been available, for some time, which has been loaned to students who have found it impossible to complete their college work without financial aid. This sum has been so small, however, that public mention of it has never been made.

Knowing that more than 76 per cent. of the boys and girls attending New Hampshire State earn their own way in part or in whole, and realizing the growing necessity of an enlargement to the fund, Dr. Hetzel prevailed upon the public-spiritedness of the trustees of the James B. Pearson estate to contribute to the amount on hand. The result was that the president received the \$1,000 check and a letter stating that more money would be contributed at a later time.

ONLY NEEDED HELPED

Only students who really need assistance, in order to prevent them from being compelled to leave college, will be included in this project. The money will be loaned, in small amounts, on notes bearing 5 per cent. interest to become operative when the students leave college. The money received from the notes will be returned in each instance to the fund, making it a perpetual one.

The officials, faculty, and students of New Hampshire College heartily thank the trustees of the Pearson estate.

EXTENSION WORKERS HOLD FIFTH ANNUAL CONFERENCE.

The fifth annual conference of the Extension Workers of New Hampshire State College has been in session during the present week and under the direction of the Extension Service Officers a very interesting and helpful program has been carried out.

The conference was started Monday evening with a joint meeting of the Extension Service Workers and the State Farm Bureau Federation at which all members of the conference were welcomed to the college by President Ralph D. Hetzel. At this meeting a co-operative program for State work was considered and adopted.

Committee meetings have occupied the major part of the time since Monday with several joint meetings of all the delegates representing the Farm Bureau Federation and the members of the Extension Service. On Tuesday afternoon Mr. W. A. Lloyd, who has charge of the County Agent work in the North and West for the Federal Government gave a very interesting address to the attendants at the conference. In the evening a social program was enjoyed at the home of Director and Mrs. Kendall.

Today meetings of various committees will take up the forenoon. In the afternoon J. C. Carrigan will give a laboratory exercise in the Farm Bureau Records Room at Morrill Hall which is to be very interesting to all those acquainted with this work.

The conference will continue its discussion through the medium of its various committees and will adjourn on Friday. These conferences of the Extension Service Workers are held annually and the co-operation of the resident members of the college faculty is of great help in the Extension Service work.

Y. M. C. A. NOTES.

There will be no movies this week. A meeting of the Friendship Council will be held at the Hut tonight. This is to be an important meeting. Everyone out.

Literature of interest to the men and of educational type can be obtained at the Hut and at the "Gym."

On Tuesday evening, November 25, the Alpha Xi Delta fraternity and its patronesses was entertained by Mrs. C. W. Scott and Miss Sue Scott at their home on Madbury road.

"DUTCH" CONNORS N. H. STRONG MAN

Called Best Specimen of Physical Fitness Seen in Years

McKENNEY RANKS SECOND

Army Officers in Charge of Tests Very Gratified with Showing---New Hampshire Well Above Average of New England Colleges

That the physical condition of the male student body of New Hampshire State College is of a high standard was demonstrated this past week when 394 members of the freshmen and sophomore classes were subjected to a rigid physical examination by the Military and Physical Departments of the college at the gymnasium.

KILL TWO BIRDS

Through the courtesy of the United States War Department two medical officers from Camp Devens, Major H. W. Taylor and Lieut. J. M. Tamray were detailed to the college to examine the members of these classes for admission to the Reserve Officers' Training Corps and through the courtesy of Commandant C. R. Snow of the military department the prescribed physical examinations of the physical department were carried along at the same time. Several students of the college assisted in the examinations.

As the examinations determined the physical qualifications of future U. S. Army officers in the Reserve Corps they were more rigid than those ordinarily given in the drafts. Still out of the 394 examined 313 were found to be physically fit. Only 20.5 per cent. were rejected where in the draft the per cent. of rejections was 35 per cent. Many of the students were rejected for minor causes and would have passed an ordinary physical examination outside of the one given at the awarding of commissions.

This examination shows that the physique of the New Hampshire student is far above the average of New England. This fact was very gratifying to those in charge of the examinations. Major Taylor and Lieut. Tamray spoke very highly of the physical qualifications of the men examined saying that they were as fine a body of men physically as they had seen during their long experience of examining men.

"DUTCH" AHEAD

The two students of the school who passed the best examinations were Stafford J., "Dutch" Connor and Charles E. McKenney, two members of the football team well known to the student body. "Dutch" was pronounced by both Army physicians as one of the finest specimens of physical fitness that they had seen in years and McKenney, the freshman half back, was not far behind the pride of New Hampshire football.

The doctors were very much pleased with the courtesy extended them while at college and both left with regrets and with the wishes that if any men were to be assigned next year that they would be selected.

FORESTRY DEPT. URGES SETTING OUT OF XMAS TREES.

Instead of cutting down a tree for Christmas this year, Professor K. W. Woodward of the Forestry Department here suggests that it would be better to set one out.

"It usually happens," he says, "that the straightest and most likely trees are selected for Christmas and are afterward thrown away. Not only are the woodlands deprived of these trees year after year, but the tree's usefulness is only a transitory one. Why not have a permanent Christmas tree in the community, set out near the church or townhall? A fir or spruce of good proportions would thus help to beautify its surroundings throughout the year. If twenty feet high it should be dug up with a ball of earth about three to four feet in diameter and might well be transplanted early in December."

For family Christmas trees Professor Woodward suggests that a conifer from three to four feet high be dug or purchased and afterward set out on the lawn. The cost of such a tree would only be slightly more than that of the ordinary Yuletide tree from which the roots have been cut away.

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TO THE COLLEGIAN

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MANY READING COURSES OFFERED

Extension Service Plans For Large Enrollment

REGISTER AT ONCE

Farmers of New Hampshire May Study Different Subjects Through This Method—Connecting Link Between the Farmer and the College

Reading courses in agriculture and home economics are being offered again this winter by the New Hampshire College Extension Service. Farm work is at a minimum at this season, and many country-folk can utilize the long evenings by reading along lines in which they wish more knowledge. The winter months may be made to pay their full value in time through reading, study and working out detailed plans for the next season on the farm. It is the purpose of the reading courses to facilitate this winter study, and to place the resources of the college at the disposal of those who cannot come to Durham.

USE TEXT BOOKS

Each of the reading courses has as its basis a text book, selected because of its reliability and because it presents the needed information in an interesting and not too technical form. This book is in itself a valuable addition to any book-shelf.

Each course is divided into three parts. A set of twenty questions designed to bring out the important points of the first part is sent to the student after he has sufficient time to purchase the text book and to read a portion of it. When these first questions are returned with their answers, the second set is returned with the corrected answers. One of the valuable parts to many has been the establishment of a means of communication between the farmer or homemaker and the faculty of the state college.

BEGAN TO ENROLL DEC. 1

Enrollment in the courses began December 1, and the work continues until May 1. All residents or property owners of New Hampshire have no enrollment fee, but those who wish to enroll from outside the state must pay a fee of \$5. Each student should purchase his own textbook direct from the publishers. Applications can be secured from the Extension Service, New Hampshire College, Durham, N. H., and should be filled out and sent to the college by all who desire to profit by this opportunity. Persons are advised to enroll in only one subject at a time, and on the completion of the course, a Certificate of Merit signed by the instructor in charge of the course and the director of extension work, will be given all who obtain a grade of 75 per cent. or over.

Wherever a group of five or more people wish to take up the work together, study clubs should be formed. An attempt will be made to send all such clubs a traveling library of books and bulletins for supplementary reading. This would furnish material for a more intensive study of the course than would otherwise be possible.

DESCRIPTION OF COURSES

Following is a description of the reading courses offered for this season:

Soils and Fertilizers given by Prof. M. Gale Eastman. This is a fundamental course treating of the nature of soils, the foods that plants require, methods of increasing soil fertility, and the practical use of fertilizers in growing of individual crops.

Farm Crops. Prof. M. Gale Eastman. A course in crop-rotations, soiling crops, grains, hays, silage, legumes, root crops, potatoes, meadows and pastures.

Farm Stock. Prof. O. L. Eckman. A general survey of the breeds of horses, dairy and beef cattle, sheep and swine, how to judge stock, and how to calculate rations.

Orchard Management. Prof. W. H. Wolff. Orchard soils, varieties, management, sod mulch and tillage, fertilizers, pruning, control of apple diseases and insect pests, and packing and grading of fruit are all considered in this course.

Dairy Farming. Prof. J. M. Fuller. Selection and care of dairy cattle, mixing of rations, farm butter-making and other dairy problems are taken up.

Poultry Husbandry. Prof. A. W. Richardson. A practical study of breeds of poultry, housing conditions, feeds, care, incubation, brooding, marketing, poultry diseases and pests.

Swine Husbandry. Prof. C. J. Fawcett. A new course this year devoted to the study of questions relating to the common breeds, adaptation to New Hampshire conditions, and a consideration of methods of breeding, feeding and management.

The Farm Woodlot. Prof. K. W. Woodward. Planting, thinning, fire prevention, protection from insects and fungi, methods of marketing are taken up.

Vegetable Gardening. Prof. J. R. Hepler. Consider the various problems that the home gardener meets.

Bee-Keeping. Prof. W. H. Wolff. It treats of the location of the apiary, bee behaviour, hives and equipment, management, swarm control and wintering.

Feeding the Family. Prof. Louise Knight. This course takes up food values, and the planning of well-balanced meals.

Clothing the Family. Prof. Marian L. Caton. A new course this year taking up the construction and technique of making, history, and the study of textiles and design.

Household Management. Prof. Isa A. Greene. Another new course that will be especially helpful to farm women, who do their own work, and feel the need of getting away from the drudgery of the household.

MR. R. DeH. FISHER RETURNS FROM DETROIT CONFERENCE.

Mr. Ralph DeH. Fisher, Y. M. C. A. Secretary for New Hampshire College, recently attended the Fortieth International Convention of the Young Men's Christian Association of North America held in Detroit, Mich., from November 19 to 23, 1919. Prominent men from all over the world were present and turbaned East Indians rubbed shoulders with the Russians, Japs and Chinese. Detroit had visitors from almost every country dressed in their native costumes which produced an interesting sight. All prominent business associations sent representatives to this convention to discuss the vital questions of today.

Among the noted speakers were Bishop Francis J. McConnell of Denver, Rev. Dr. Michael S. Rice, N. W. Rowell, K. C. of Canada, and Warren S. Stone, President of the Brotherhood of Locomotive Engineers.

These men spoke effectively upon the questions of labor and capital and their connection with the strike, the results of the war and other subjects of international importance.

One important decision of the convention was to hold the Student conference of the Y. M. C. A. at Silver Bay, Lake George, N. Y., in the future.

The principal reasons for changing were based upon the facts that the equipment is better at the new location, that it is a more beautiful spot and that it is more centrally located.

Another important decision was to co-operate with the Inter-church World Movement. The object of this is to send five able men to each college to help establish better character and to help the students in selecting their life-work. The date at which these men will visit New Hampshire College is not known. The programs at the convention were divided into sections, the most important being the army and navy section, railroad section, industrial section and student section. The two above mentioned decisions were made by the student section.

"NEW HAMPSHIRE" ELECTS NEW STAFF MEMBERS.

The "New Hampshire" staff, at a recent meeting elected to the board several new members. These students have been working hard since college opened preparing articles for publication in the college weekly and their election to the board is a reward for efficient and faithful service. The new members of this staff who were elected as reporters are:

S. L. Stearns, '20.
Fannie Spinney, '22.
H. F. Barnes, '23.
Mrs. N. M. Ekdahl, '23.
Alice Saxton, '23.
Mildred Bangs, '23.
S. J. Alling, '22, who has been serving as athletic editor since the resignation of G. D. Melville, '20, was elected assistant news editor.

PROF. W. H. WOLFF TALKS ON BEES

Discusses Use of Sugar to Tide Over Swarms Who Have Insufficient Supply of Honey on Hand for Winter

At the regular meeting of the Agricultural Club held Monday evening, December 1, in Morrill Hall, Prof. W. H. Wolff discussed the question of beekeeping.

Among the many things touched upon by Prof. Wolff in his talk was the use of sugar to prevent bees from starving during the long cold winter. It developed that the past summer has been a poor one for bees to gather honey, so that in a majority of cases, the swarms of bees scattered over the state have an empty pantry instead of plenty of honey to winter on. When the State Beekeeper's Association, an organization of which Prof. Wolff is secretary, found how things were going, they put up the question to the Sugar Equalization Board. In this way the beekeepers were able to secure sugar according to the number of bees kept by them.

Harold G. French, '21, was elected as a new Master of Program to take the place of "Doc" Emery resigned, and Sam Stearns, '20, was elected as an assistant Master of Program.

At the next meeting, Dec. 15, big things are promised by the newly elected officers, and all agricultural men should turn out to see how these men "pan out."

Every student interested in bees and beekeeping should have been at the Agricultural Club Rooms on Monday evening, Dec. 1, and heard Prof. W. H. Wolff speak. The occasion was the semi-weekly meeting of the Agricultural Club, in which every Aggie student should take an interest.

FACULTY NOTES.

On Wednesday, Dec. 3, Prof. J. M. Fuller of the Dairy Department spoke at Claremont on The Milk Problem in Claremont.

On Friday, Dec. 5, Prof. W. H. Wolff of the Horticultural Department was in Hancock. Prof. Wolff spent most of his time in field work, looking over W. E. Putnam's apple orchards.

A daughter, Marian, was born on October 28, to Dr. and Mrs. M. O'K. McKay.

Dean C. H. Pettie and Dr. M. O'K. McKay attended a conference held Tuesday at Concord, N. H., for the purpose of considering the problems of taxation, particularly those concerning forests.

A son, Richard Stanley, was born on October 22 to Mr. and Mrs. C. J. Fawcett at the Wentworth Hospital, Dover.

The Faculty Dancing Club met Tuesday night at the Girls' Gymnasium in Thompson Hall. The next meeting, scheduled for December 16, will be the last one before the Christmas recess. A large attendance of the members of the organization is desired.

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**NEWSY ITEMS
OF THE ALUMNI.**

Edward J. Norman, 2-yr. '16, in a recent letter to the "New Hampshire" says that he is now superintendent on F. G. Crane's estate, Dalton, Mass. He has under his care all of the green houses, large flower and vegetable gardens, walks, drives, trees, shrubs and small fruits. He has been following New Hampshire football season and congratulates the team for its fine showing.

Professor and Mrs. C. H. Batchelder, now of the University of Maine, are the proud parents of John Pierce Batchelder, a seven-pound son, born Monday, November 17. Professor Batchelder was formerly an instructor in Zoology here, and Mrs. Batchelder was formerly Miss Mildred Pierce, principal of the Durham village school.

Elizabeth Center, ex-'18, who has been doing government work in Washington, D. C., since leaving college, is now in Los Angeles, California, where she plans to do the same kind of work.

Carleton Tibbetts, '17, and Julia Roberts, '17, were married on November 26, 1919, at Toledo, Ohio.

Captain R. C. L. Graham, '17, is with the Eighth Infantry, American Forces in Germany.

Philip Jones, '13, was married to Miss Elsie Shumack of Meriden, Conn., on November 25. Mr. and Mrs. Jones will be at home at 29 Cook Avenue, Meriden, Conn., after the first of February.

James Melikonian, ex-'09, who joined the Canadian Army and was wounded at Vimy Ridge two years ago was recently in Durham. Since being wounded, he has been in the hospital several times for operations and since his visit in Durham, he has returned for another operation.

John J. Parsons, '18, formerly of Somersworth, is at present working in the Internal Revenue Service, in the District of Maine, his headquarters being at Augusta. Parsons took the work in accounting while here and is now examining and checking personal income tax returns. He will be at the Internal Revenue Office in Bangor until about the middle of December when he expects to go to the Aroostook region for several weeks' work. Parsons is very enthusiastic over the showing that the football team has made this year.

At the Chicago Dairy Show, held some time ago, Flintstone Farm of Dalton, Mass., owned by F. G. Crane, took first and second prizes in gold and silver medals on butter with 96½ points. This butter was made by "Sam" Harriman, 2-yr. '15, who is head dairyman at Flintstone.

Margaret Baker, '19, is teaching at Power's Institute, Bernardston, Mass.

XMAS SALE

Don't forget the Y. W. C. A. sale on Friday. This is a good chance to get your Christmas presents. The sale will begin in the afternoon and extend through the evening. Fancy articles, Japanese novelties, cards, calendars, ice cream, cake, coffee, pop corn balls, and all kinds of home-made food will be found at the various booths.

For the evening an entertainment is being planned with the assistance of Miss Helen Bartlett. A short play called "The Love of a Bonnet," will be given, also some fancy dances and musical selections. A small admission fee will be charged, and it is hoped that a large number of students and townspeople will patronize this "Christmas bazaar."

**HARD SCHEDULE FOR
FRESHMAN BASKET BALL.**

Freshman basketball started Monday when candidates reported to Assistant Coach "Woody" Howe at the Gym. With the floor in prime condition and the baskets up, the freshies will work hard to get a good team in shape. The hard schedule that has been arranged, will necessitate a strong team to make a good showing. Ever since the baskets have been put up, nearly a month, there have been several freshmen practicing and among these there seem to be plenty of likely material.

Games with the best prep schools of Maine and New Hampshire have been arranged and also one with Dartmouth freshmen. This is the first freshman team to play a full schedule. In past years, the freshman team has played but two or three outside games with high schools. Assistant Coach Howe has had a lot of experience in basketball, having been a fine player in his school days, and having coached prep school fives in Maine.

From this entering class of more than 150 men, surely a winning quintet can be obtained. There are without doubt plenty of men who have had experience in high and prep schools. All freshmen are urged to come out as soon as possible. The schedule is not yet complete, but the following eleven games are assured.

The schedule:
Friday, Jan. 16. Tilton Seminary, Tilton.
Saturday, Jan. 24. Andover, Andover.
Friday, Feb. 6. Thornton Academy, Durham.
Friday, Feb. 13. Thornton Academy, Saco.
Wednesday, Feb. 18. Exeter, Durham.
Saturday, Feb. 21. Dartmouth, '23, Hanover.
Saturday, Feb. 28. Colby Academy, Durham.
Wednesday, Mar. 3. Exeter, Exeter.
Friday, Mar. 5. Goddard Seminary, Durham.
Friday, Mar. 12. Tilton Seminary, Durham.
Saturday, Mar. 20. Interclass, Durham.

**COLONEL SPENCER TALKS
TO OVERSEAS CLUB.**

At the last regular meeting of the Overseas Club, held Monday evening, November 24, Lieut. Col. Spencer gave a remarkable inside story of the working of the American Intelligence System during the war against Germany. For more than two hours the attention of every man present was held by the recital of incidents from every front and sector of the western line, tales of amazing advance knowledge of German plans and movements, revelations of the tremendous importance of things which the soldier at the front would think the most trivial, and stories of the novel methods by which information had been extracted from prisoners of war. To illustrate his talk, Colonel Spencer showed and explained the significance of several maps, all gotten out by the intelligence department in the field, and a large number of shoulder straps of various German regiments, which were one of the most common sources of information.

As a part of his work Col. Spencer had access to the remarkable allied record of every German military unit, and kept track of each one from day to day on the large maps at headquarters. The Colonel was also present at the taking of the telescope through which the Crown Prince watched the battle of Verdun, and which is now one of the war trophies at West Point.

BOOK AND SCROLL.

The Book and Scroll held a mystery meeting, Sunday evening, December 7 at Dr. A. E. Richards' home. The programme was in form of a contest, which was divided into three parts. The first part consisted of quotations which were given, and the members had to give the author's name. Then Dr. Richards played selections on the piano and the names of the pieces were guessed by the members. Lucille Burleigh, '20, read parts of Shakespeare's romances. Parts were left out and these were filled in with names of Shakespeare's plays. The prize was a box of chocolates which was won by Helen Meader, '21.

NOTICE.

The Mathematics course designated in the catalogue as No. 10-a will be given during the second term if not less than five students apply for same. Kindly confer with H. L. Slobin.

Make-up examinations for students who received conditions in mathematics last spring will be given during the week of December 8. Those wishing to take those examinations should make arrangements with Mr. Wildes at the office of mathematics.

LIBRARY

NEW BOOKS.

Arnold, J. H. Farm Management. A discussion of types of farms, farming organization, business methods, etc. 631.1 A756
British-American discords and concords; a record of three centuries; compiled by the History circle. An interesting and careful summary. 327.73 B862
Brown, H. E. The theory of earned and unearned incomes. A constructive criticism of socialism. 330.1 B878
Butterfield, K. L. The farmer and the new day. A discussion of rural problems and interests. 630.1 B98
Chamberlain, Allen. Vacation tramps in New England highlands. Description hints to hikers and maps of routes in the White and Green Mountains. 917.4 C443
Conn, G. H. The cow in health and disease. 636.2 C752
Ekblaw, K. J. T. Farm structures. 631.2 E31
Ellsworth, W. W. A golden age of authors. The author's personal recollections of writers of the last half century. 810.9 E47
Kennedy, Sinclair. The Pan-Angles: a consideration of the federation of the seven English-speaking nations. 327.73 K36
Lowell, Amy. Pictures of the floating world. Poems. 811 L91pi
Manufacturers' aircraft association. Aircraft year book. A partial history of aviation summing up the advance made during the war. 629.17 M294
Morman, J. B. The place of agriculture in reconstruction: a study of national programs of land settlement. 630.973 M865
Rittenhouse, J. B., compiler. Second book of modern verse: a selection from the work of contemporaneous American poets. 811.08 R61s
Russell, G. E. Textbook on hydraulics. 627 R963
Teasdale, Sara. Rivers to the sea. Poems. 811 T253r
FICTION
Blasco, Ibanez V. Mare nostrum (Our sea), B646m
Hueston, Ethel. Leave it to Doris. H887 1
Knibbs, H. H. The ridin' kid from Powder River. K69r
London, Jack. The little lady of the big house. L847 1i
Porter, W. S. Waifs and strays, by O. Henry. Recently discovered stories and biographical sketches. P848 wa
Tracy, Louis. Number seventeen. T761n

**GIRLS' PHYSICAL TRAINING
SHOWING GOOD RESULTS.**

Compulsory physical education for the women students of New Hampshire State College is accomplishing very commendable results. Under the instruction of Miss Helen Bartlett the course in physical training has been developed from an uninteresting course to an attractive training liked by all of the girls.

The women students of the college under the new system are required to take physical training for three years and may if they wish elect it for the fourth year.

During the fall and spring the girls practice field hockey, soccer, baseball and track. In the winter basketball and indoor baseball are played in the Girls' Gymnasium. In all of the sports class teams are developed and with the increase in the number of girls attending New Hampshire College and with the increased interest in athletic work it is probable that soon varsity teams will represent New Hampshire College.

Besides the sports in which teams are developed the girls receive a normal school training in playground work including folk and aesthetic dancing, gymnastic training with light and heavy apparatus and such other work as is necessary in the training of camp and playground instructors.

Dr. Richards will speak before the Woman's Club in Somersworth Saturday, the 13th, and before the Woman's Club in Exeter Tuesday, the 16th.

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AGRICULTURAL CLASS GOES TO LOWELL

Inspects Lowell Fertilizer Plant--- Re-
ceive Very Courteous Treatment
Dean Taylor Acts as Pilot

Dean F. W. Taylor on December 5 piloted about twenty-five juniors and seniors on one of the most interesting instruction trips ever taken by any agricultural class. The men visited the plant of the Lowell Fertilizer Co. of Lowell, Mass. The party went in automobiles by way of Exeter, Amesbury and Haverhill, making the run in 3½ hours. Dinner was served in the new cafeteria there through the courtesy of the management, and following the meal, the plant was inspected.

Raw materials come from widely distant places; the phosphate rock used in making acid phosphate being shipped from Florida, and Tennessee; iron pyrites for sulphuric acid making is imported from Spain. Potash is brought from the Southwest, and any other place it can be obtained.

MAKE OWN BAGS

The company makes its own containers for the finished product, and for bags alone, 1,500,000 yards of burlap are required a year; the bag making department turns out 9,000 bags per day. Fertilizer for Aros took is shipped in barrels, as these are used later in harvesting the potato crop. The cooperage shop produces 3,500 barrels a week, with only eight men employed. These barrels are made the regulation size to hold 165 pounds of potatoes, but hold 250 pounds of fertilizer.

All raw material is ground before storing. Phosphate rock, received as pebbles, or shale, is run through three grinding machines and blown to the top of a 110 foot tower. This rock powder, which is fine enough to pass through wire 200 meshes to the inch, is then mixed with sulphuric acid and allowed to stand a day, then dumped to cure for four or five months in a storehouse 600 feet long and 200 feet wide.

Wool and leather waste are utilized in the production of nitrates; treatment with acid making all the nitrogen available.

HAVE 91 FURNACES

In making sulphuric acid, 91 furnaces are used in the production of sulphur dioxide, by roasting iron pyrites. This acid plant is the most efficient in the country, the loss of oxides of nitrogen being only 1 ½ per cent. The sulphur fumes pass through six lead chambers in making the acid.

The completed fertilizer is stored in enormous bins holding 3,000 tons for three or four months, then reground and bagged for shipment. The loading platform of the plant will accommodate 35 cars at once; the plant has a capacity of 100,000 tons of fertilizer a year.

The assistant superintendent and general foreman of the establishment very courteously served as guides for the party and explained the various processes.

MOVING PICTURES.

Moving pictures were shown at the Gymnasium Friday evening, Dec. 5. "Dombey and Son," a six-reel picture, adapted to the screen from the novel of the same name, by Dickens, was the feature picture.

Owing to the scraping of the Gym floor, still in progress, all who attended were given seats in the balcony, which proved inadequate to accommodate the number who came, so that quite a few were turned away.

"HABITS" SUBJECT AT CONVOCATION.

(Continued from Page One.)

erans of the war. In gazing upon the scene, the thought of the men and women of America marching in review and revealing their bad habits to the onlookers came to the physician's mind. A bad habit may be "covered up" for awhile; but, eventually, it will crop out. Dr. Seerley asked the students who were free from evil habits to attempt to remain so and those who practiced evil, to avail themselves of their privilege of starting over again. If the coming generation is any better than the last, it will be because the fathers and mothers are better, and the doctor asked the aid of New Hampshire College in advocating a purer, nobler, and more God-like nation.

PROF. K. W. WOODWARD URGES USE OF AVAILABLE FIREWOOD FOR FUEL.

In the face of the uncertain coal situation, New Hampshire can well afford to turn to the unused fuel that in many cases is doing positive damage to its wood lots, says K. W. Woodward, professor of forestry here at New Hampshire College.

"Even for the coming winter," says Professor Woodward, "there is a great deal of available firewood which is not being properly utilized. Wood that is already down, such as defective logs and dead wood, such as oaks killed by gypsy and brown tail moths, should be used as fuel. Yellow, gray and paper birch, particularly where its growth is detrimental to pine and other more valuable woods, should be cut, and may be seasoned sufficiently to burn well in about three months.

"Many woodlot owners have been in the habit of thinking that the trees on their lot should all be cut at once; but as a matter of fact it is a distinct improvement to the growth of their timber to cut out the insect infested trees, poor species, large misshapen trees, and the defective and suppressed trees. Such wood is worth cutting as fuel, and the woodlot will be better off without it."

Professor Woodward is giving an extension reading course on "The Farm Woodlot" this winter which is free to all residents of the state.

MISS BEULAH BETTEL ON LEAVE OF ABSENCE.

The departure of the assistant dietician, Miss Beulah G. Bettel, on an indefinite leave of absence has brought to the attention of the college Miss Bettel's conscientious work for New Hampshire during the past year.

In the fall of 1918 Miss Bettel took charge of the Smith Hall dining-room where all women students were then required to take their meals. She continued her work through the summer having entire charge of the faculty dining room at Smith Hall and of the meal service provided for the New Hampshire School for Women Citizens.

Later on in the year Miss Bettel assisted Mrs. Smith at the opening of the Commons to the Farmers' convention. This fall the cafeteria has been under her management.

Tuesday, last, when she left for her home at Blue Hill, Maine, Miss Bettel was presented with a traveling bag and \$50 in gold, the gift of students and members of the faculty appreciative of her work for the college.

NEW HAMPSHIRE FIRST TO HEAR J. STITT WILSON.

New Hampshire this year will be the first college in New England to hear J. Stitt Wilson, the noted lecturer and labor leader. Mr. Wilson will be at N. H. C. from January 19th to 22nd.

Milton R. Vose, '20, was one of some 600 college students to hear him at the Northfield Student's conference last June. Representative college men from all the more important eastern colleges were at Northfield and were unanimous in their conviction that no saner and more impressing speaker has appeared before college men in the past decade. Stitt Wilson's economics are sound and his ideas on social justice are contagious. He believes in Constructive Christian Democracy.

Stitt Wilson is in great demand and it was only after special effort and very early application that N. H. C. was granted the privilege to hear his most unique and timely message. He has a good bit to say concerning the present industrial upheaval and has had the training both academic and practical which fits him in an admirable way for this special field.

The following is his itinerary for January and February and it is indicative of his manner in which the college world is receiving him and his timely message:

Jan. 7 to 10. University of Penna.
Jan. 13 to 16. Ohio State University.
Jan. 19 to 22. New Hampshire State College.
Feb. 6 to 9. Massachusetts Agricultural College.
Feb. 11 to 14. Wesleyan University.
Feb. 17 to 19. Bates.
Feb. 21 to 24. University of Maine.

Smith: "How's everything at your house?"

Brown: "Oh, she's all right."

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DARTMOUTH

In the intelligence tests which all freshmen were required to take recently, the highest grade was 203 out of a possible 212, the lowest grade was 70. The average for 636 freshmen was 148.35. These figures are interesting when we find that the army and navy average for this same test was but 53.

BATES

An Outing Club is being formed here modelled after the Dartmouth Outing Club. The organization is going to keep Lake Andrews clear of ice, and light it for night skating, hockey practice and games. Besides boosting hockey, the club is planning to build a toboggan slide. The club is to consist of all college students who have paid their dues, and will be managed by a board of directors chosen from the student body.

CONNECTICUT

A bill is to be presented to the session of the Connecticut legislature requesting that the name of the Connecticut Agricultural College be changed to Connecticut State College, both because it is the only state college, and also to do justice to the departments at the college other than agricultural.

The programs for the College Assembly for the rest of the year are to be arranged by a committee consisting of five faculty members and a student from each of the three upper classes. There has been dissatisfaction with the Assembly and this committee was elected to improve the Assembly and make it as interesting and beneficial as possible.

MEN SELECTED FOR GLEE CLUB PICTURE.

After the weekly rehearsal of the Men's Glee Club held Wednesday evening, Dec. 3, in "T." Hall the following men were chosen for the Glee Club picture:

First Tenors, Y. B. Batchelder, H. J. Bennett, G. V. Crosby, F. W. Ladd, '21, G. Patten, '20, E. E. Smith, A. E. McKenney, '23, G. W. Wiggins, '21.

Second Tenors, H. F. Barnes, '23, L. A. Connor, W. A. Dion, '23, W. P. Mack, S. Patrick, '23

First Basses, S. J. Alling, '22, R. T. Bartlett, C. T. Brown, R. T. Child, W. T. Crosby, C. Eastman, P. B. Gay, '23, H. M. Hatch, F. Lagasse, '21, A. Martin, '22, F. G. Martin, E. H. Shannon.

Second Basses, H. S. Abbott, P. Ayer, H. Moody, D. A. Newman, S. E. Pollard, H. Rodenhiser, M. Simonds, D. W. Waldo.

Although these men have been chosen for the picture it is hoped that all the others who were not chosen will continue to come out regularly as the men to take the trip have not been selected and every man still has a chance to make the club.

The Church in Durham

REV. VAUGHAN DABNEY, Pastor.

SUNDAY SERVICES

10.45. Morning Worship. Sermon by Dr. A. E. Holt. Social Service Secretary of the Congregational Church. Subject: Will the Church Write the Planks for the New Americanization Platform?

12 M. Sunday School in the vestry. Bible classes in the Auditorium.

4.30. Vesper Service by New Hampshire College Orchestra.

7.00 p. m. N. H. Y. P. O. in the vestry.

ANNOUNCEMENTS

Ladies' Night of the Men's Club Wednesday, Dec. 10, at 7.00 o'clock in the vestry. Splendid program offered. Speaker, Dr. A. E. Holt, Boston. Subject: The Greatest Community Building Story I Know. Music by New Hampshire Orchestra. Please notify the committee if coming. See Mr. Chamberlin, Prof. Kendall, Lester Langley.